

ABSTRACT OF THE DISCLOSURE

An interleaver device and associated methods of manufacturing and calibration that use a laser bending technique to adjust the relative position of interferometers of the interleaver. The interleaver device includes a laterally divided housing with two lateral portions separated by supports. The supports are web like structures, the length of which can be adjusted in a predictable or measurable manner in response to a laser beam. The laser bending calibration and manufacturing technique uses a laser and a feedback and control system to adjust the spacing and angular relation between the lateral portions by partially melting one or more of the supports. The feedback and control system includes an optical detector, a computer, and a positioning system. This combination of components allows the interleaver device to be calibrated to precisely adjust the separation between channels within a WDM optical signal.

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